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1 Mental Registration of 2D and 3D Visualizations (An Empirical Study)

Melanie Tory

October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**

Publisher: IEEE Computer Society

Full text available: pdf(333.20 KB) Additional Information: full citation, abstract

2D and 3D views are used together in many visualization domains, such as medical imaging, flow visualization, oceanographic visualization, and computer aided design (CAD). Combining these views into one display can be done by: (1) orientation icon (i.e., separate windows), (2) in-place methods (e.g., clip and cutting planes), and (3) a new method called ExoVis. How 2D and 3D views are displayed affects ease of mental registration (understanding the spatial relationship between views), an importa ...

Keywords: 2D and 3D visualization, mental registration, slice, orthographic projection, empirical study, experiment

2 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

3 Combining 2D and 3D views for orientation and relative position tasks

Melanie Tory, Torsten Moller, M. Stella Atkins, Arthur E. Kirkpatrick

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing**

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3594	(("2" or two) near2 dimension$2) and (("3" or three) near2 dimension$2) and (computer near2 aided near2 design)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:12
L2	867	703/1.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:13
L3	2732	(("2" or two) near2 dimension$2) same (("3" or three) near2 dimension$2) and (computer near2 aided near2 design)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:13
L4	367	703/1.ccls. and cad	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:20
L5	497	(("2" or two) near2 dimension$2) same (("3" or three) near2 dimension$2) same (computer near2 aided near2 design)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:13
L6	429	(("2" or two) near2 dimension$2) same (("3" or three) near2 dimension$2) same (computer near2 aided near2 design) and (projection or view)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:14
L7	49	(("2" or two) near2 dimension$2) same (("3" or three) near2 dimension$2) same (computer near2 aided near2 design) and (projection or view) and ((update or change) near3 (dimension or attribute or attributions))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:17
L8	169	(("2" or two) near2 dimension$2) same (("3" or three) near2 dimension$2) and (computer near2 aided near2 design) and (projection or view) and ((update or change) near3 (dimension or attribute or attributions))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:17
L9	319	703/1.ccls. and cad and ("2" or two) and dimension$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:21
L10	319	703/1.ccls. and cad and ("2" or two) and dimension$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/03 16:21